

Rec'd PCT/PTO 20 MAY 2004 535,713

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number  
WO 2004/048968 A1

(51) International Patent Classification<sup>7</sup>: G01N 33/04,  
21/76, 33/487, A01J 5/013

(72) Inventors; and

(75) Inventors/Applicants (for US only): WRIGHT, David, Kent [GB/GB]; P.O. Box 16, Leominster HR6 0DD (GB). FULLAM, Philip, Stephen [US/US]; 2111 Green Creek, San Antonio, TX 78232 (US).

(21) International Application Number:  
PCT/GB2003/005029

(74) Agent: FORRESTER KETLEY & CO; Chamberlain House, Paradise Place, Birmingham B3 3HP (GB).

(22) International Filing Date:  
19 November 2003 (19.11.2003)

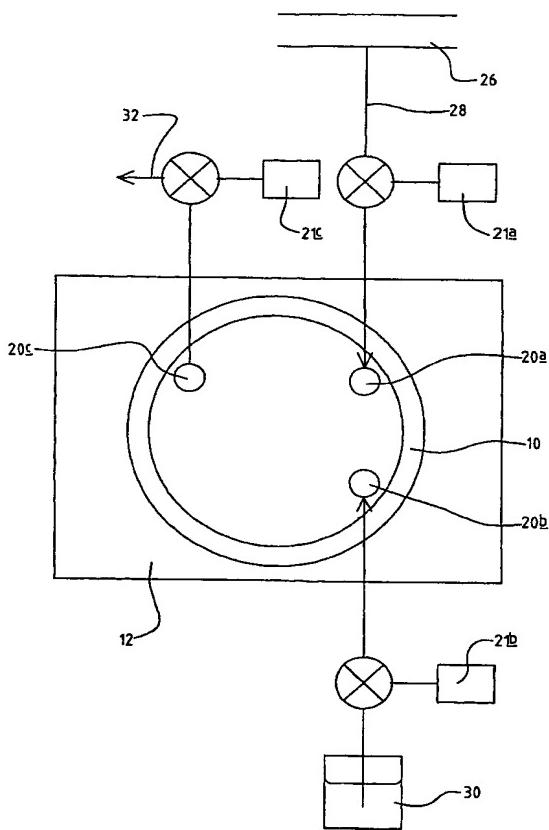
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
0227296.1 22 November 2002 (22.11.2002) GB

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DETECTING MASTITIS



(57) Abstract: A method of testing a biological fluid for the presence of an infection, the method including the steps of introducing a sample of biological fluid and a reagent including light amplifying compound into a reaction chamber (18), the light amplifying compound reacting with a substance present only in an infected sample to emit light, and immediately measuring the intensity of any light emitted from the sample.

WO 2004/048968 A1

W 2004/048968 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

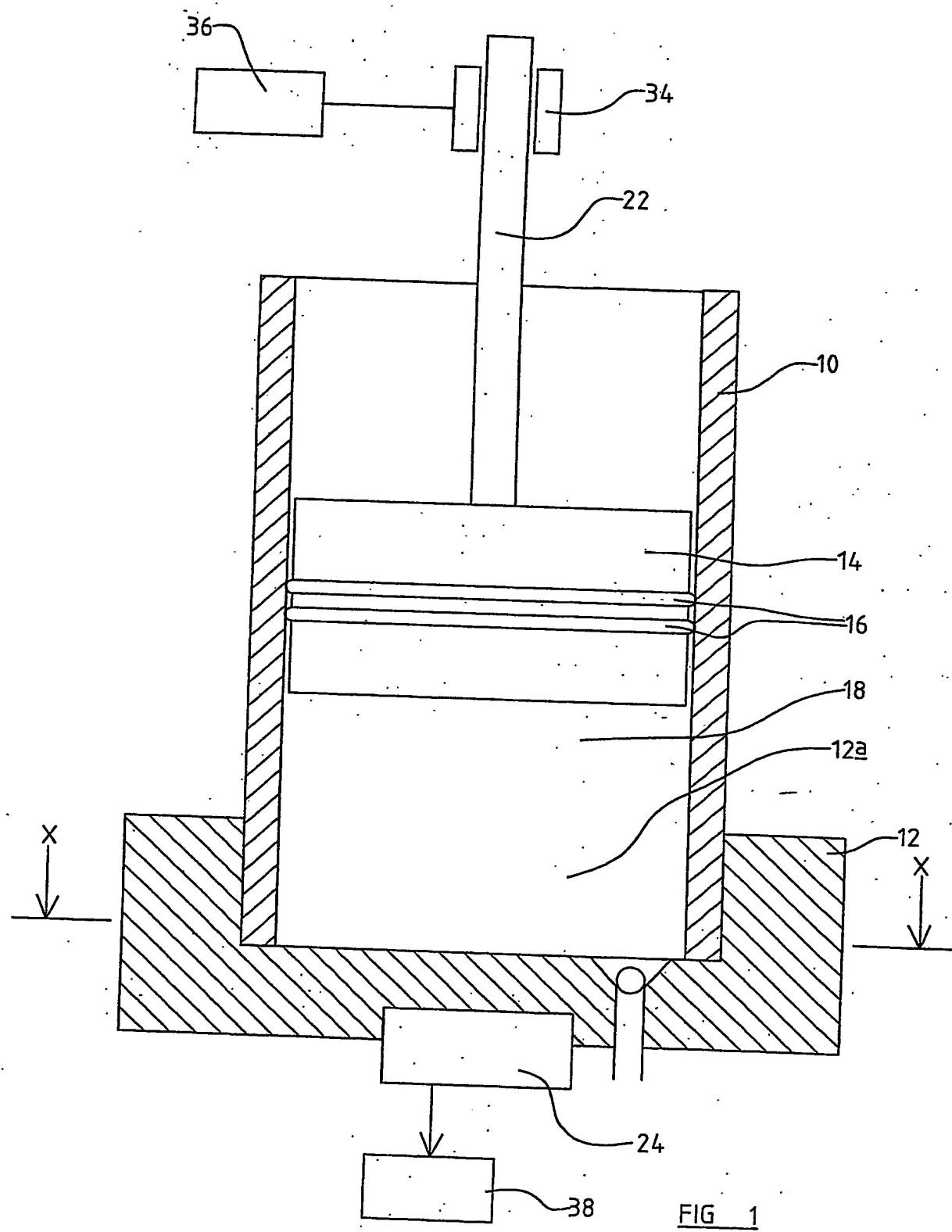
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

**Published:**

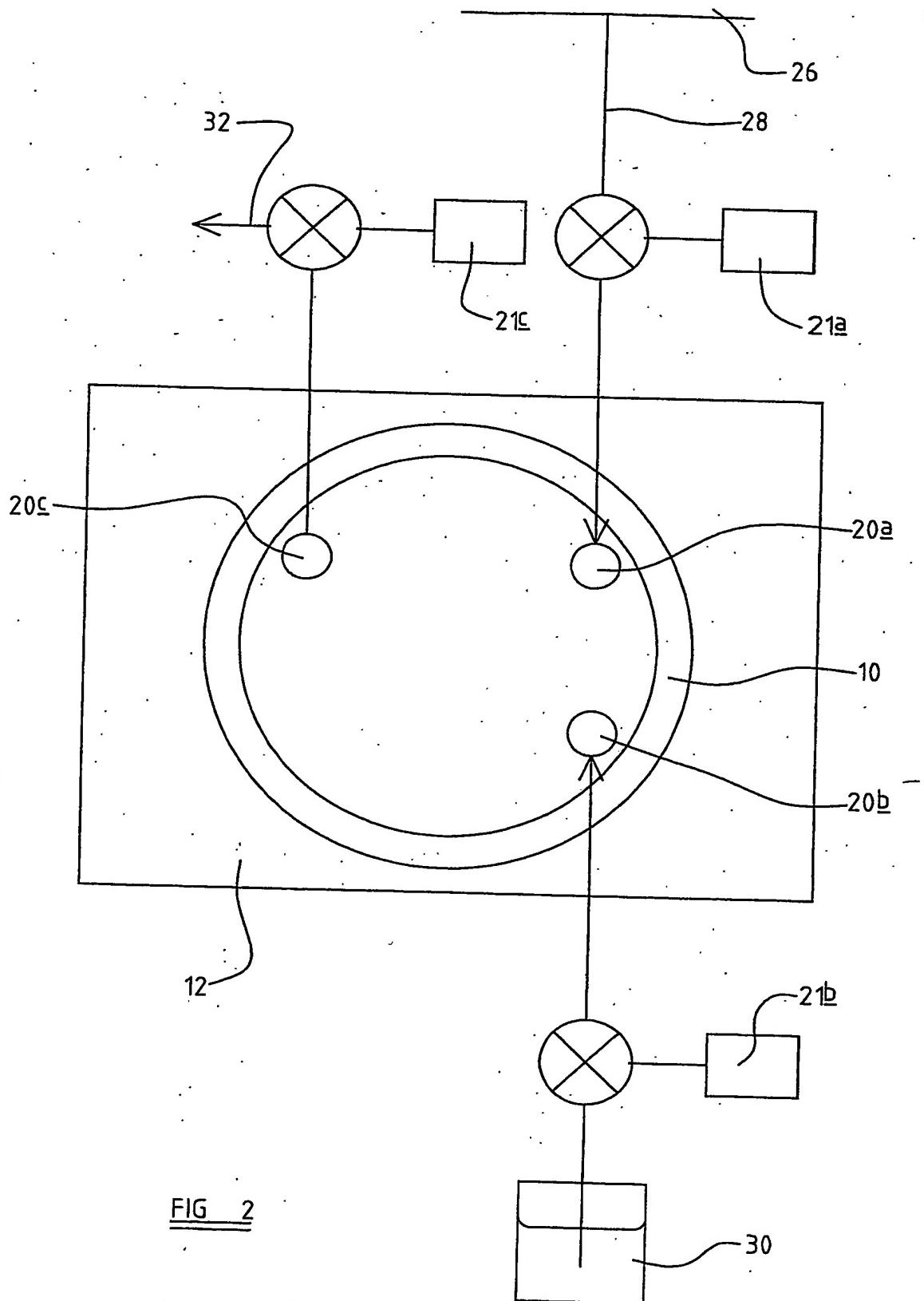
— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

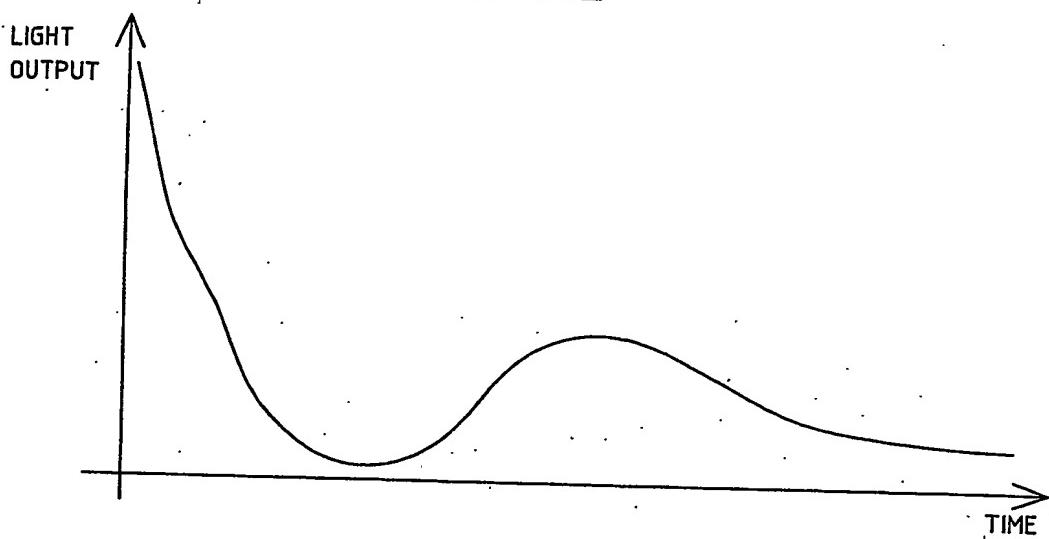
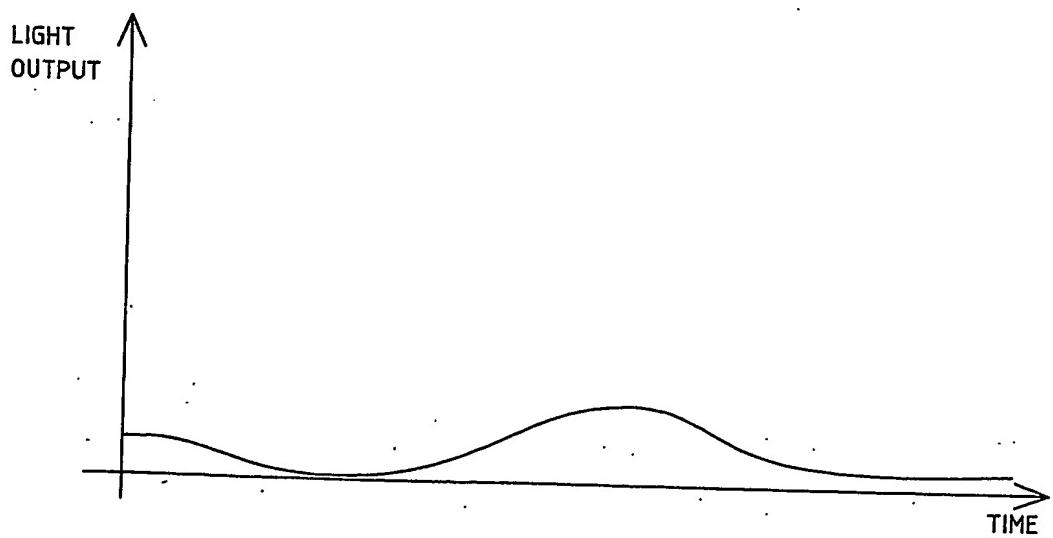
1 / 3 Rec'd PCT/PTO 20 MAY 2005

FIG. 1

2 / 3

FIG 2

3 / 3

FIG 3aFIG 3b**BEST AVAILABLE COPY**

# INTERNATIONAL SEARCH REPORT

Final Application No  
PCT/GB 03/05029

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7	G01N33/04	G01N21/76	G01N33/487
			A01J5/013

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N A01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 489 602 A (KNIGHT SCIENT LTD) 10 June 1992 (1992-06-10)	1-6,8,
Y	column 3, line 12 -column 4, line 45 column 8, line 17 - line 45	14-16 7
X	GB 2 001 434 A (TARKKANEN V;KOLEMRAINEN S) 31 January 1979 (1979-01-31)	17
Y	the whole document	7,26,28
Y	WO 01 35728 A (CLAYCOMB RODNEY WAYNE ;DEC INTERNAT NZ LTD (NZ); WHYTE DAVID SIMON) 25 May 2001 (2001-05-25)	26,28
	the whole document	
X	US 6 297 045 B1 (MATUE TAKAHISA ET AL) 2 October 2001 (2001-10-02)	1-3,7,8
	cited in the application	
	the whole document	
	---	
	---	
	---	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

23 March 2004

29/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Joyce, D

**INTERNATIONAL SEARCH REPORT**nat Application No  
PCT/GB 03/05029**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 350 421 A (KRYSIUM ADVISORS LTD) 29 November 2000 (2000-11-29) cited in the application the whole document -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/GB 03/05029

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0489602	A	10-06-1992	AT DE EP US	139843 T 69120514 D1 0489602 A2 5266209 A	15-07-1996 01-08-1996 10-06-1992 30-11-1993
GB 2001434	A	31-01-1979	DE FR SE	2831559 A1 2398304 A1 7807859 A	15-02-1979 16-02-1979 20-01-1979
WO 0135728	A	25-05-2001	AU CA EP WO	1902201 A 2390579 A1 1231833 A1 0135728 A1	30-05-2001 25-05-2001 21-08-2002 25-05-2001
US 6297045	B1	02-10-2001	JP JP	2995205 B2 2000041696 A	27-12-1999 15-02-2000
GB 2350421	A	29-11-2000	AU BR CA CN EP WO JP NZ PL US ZA	4598200 A 0010633 A 2372203 A1 1351649 T 1181348 A1 0070011 A1 2002543826 T 515273 A 351742 A1 6660469 B1 200108712 A	05-12-2000 19-02-2002 23-11-2000 29-05-2002 27-02-2002 23-11-2000 24-12-2002 28-11-2003 02-06-2003 09-12-2003 24-06-2002